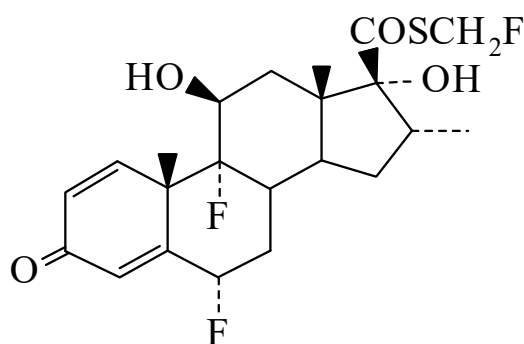




>>Entry Name: Fluticasone, BAN, INN

Synonym(s): S-Fluoromethyl 6,9-difluoro-11,17-dihydroxy-16-methyl-3-oxoandrosta-1,4-diene-17-carbothioate, 9CI



CAS Registry Number: 90566-53-3

Molecular Formula: $C_{22}H_{27}F_3O_4S$

Molecular Weight: 444.514

Accurate Mass: 444.158214

Percentage Composition: C 59.45%; H 6.12%; F 12.82%; O 14.40%; S 7.21%

General Statement: Fluoro-analogue of Cloticasone [HFF21-L](#)

Biological Use/Importance: Corticosteroid, antiinflammatory agent

Calculated Log P Data: Log P 1.45 (uncertain value) (calc)

>>Derivative: 17-Propanoyl

Synonym(s): Fluticasone propionate. Atemur. Axotide. Cutivate. Flixonase. Flixotide. Flonase. Flovent. Flutinasone. Flutide. Flutivate. CCI 18781

CAS Registry Number: 80474-14-2

Molecular Formula: $C_{25}H_{31}F_3O_5S$

Molecular Weight: 500.578

Accurate Mass: 500.184429

Percentage Composition: C 59.99%; H 6.24%; F 11.39%; O 15.98%; S 6.41%

Biological Use/Importance: Corticosteroid, antiinflammatory agent; used for treatment of inflammatory bowel disease, asthma and allergic rhinitis

Physical Description: Cryst. (Me_2CO)

Development Status: Marketed drug. Launched 1990. Worldwide 29th best selling prescription drug as Flovent (\$1.33 bn) (GlaxoSmithKline) and 80th as Flonase (\$0.62 bn) (GlaxoSmithKline) (2000, Pharma Business)

Melting Point: Mp 274-275°

Optical Rotation: $[\alpha]_D^{22} +32$ (dioxan)

Calculated Log P Data: Log P 2.58 (uncertain value) (calc)

Other Data: Used in combination with Salmeterol [GRK52-P](#). Component of Seretide

References:

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Holliday, S.M. et al., *Drugs*, 1994, **47**, 318, (pharmacokinet, rev, propionate)
Phillipps, G.H. et al., *J. Med. Chem.*, 1994, **37**, 3717, (synth, pharmacol, propionate)
Johnson, M., *Allergy, Suppl.*, 1995, **50**, 11, (rev, propionate)
Abbinante-Nissen, J.M. et al., *Am. J. Physiol.*, 1995, **268**, L601, (pharmacol, propionate)
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Wiseman, L.R. et al., *Drugs*, 1997, **54**, 885-907, (propionate, rev)
Jarvis, B. et al., *Drugs*, 1999, **57**, 769-803; 933-940, (rev, fluticasone propionate)
Martindale, *The Extra Pharmacopoeia*, 32nd edn., Pharmaceutical Press, 1999, 1042
Markham, A. et al., *Drugs*, 2000, **60**, 1207-1233, (rev, fluticasone propionate)